

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

February 27, 2004

TO: Internal File

THRU: Daron Haddock, Permit Supervisor

FROM: Steve Fluke, Reclamation Hydrogeologist

RE: 2003, Third Quarter Water Monitoring, West Ridge Resources, Inc.,
West Ridge Mine, C/007/0041-WQ03-3, Task ID #1732

1. Was data submitted for all of the MRP required sites? YES [X] NO []

2. On what date does the MRP require a five-year resampling of baseline water data.

Resampling due date.

Five-year baseline resampling to occur at the time of the mid-term review. The next baseline resampling will be conducted by October 1, 2006.

3. Were all required parameters reported for each site? YES [] NO [X]

Missing flow and oil and grease data for stream site ST-5 on August 14.

4. Were irregularities found in the data? YES [X] NO []

Flow was reported in only two of eight spring monitoring sites; SP-8, and SP-12

No irregularities were reported for the stream monitoring sites. Site ST-5 had elevated concentrations of TSS (32,276 mg/L) and total iron (566 mg/L) for the August 14 sample. This is not uncharacteristic of an ephemeral stream during a storm event. In addition, dissolved iron concentrations were normal (0.097 mg/L). No flow was reported for site ST-6 for this same storm event.

5. Were DMR forms submitted for all required sites?

1st month, YES ☒ NO ☐
2nd month, YES ☐ NO ☒
3rd month, YES ☐ NO ☒

DMR data is submitted to the DOGM database. No flow was reported for UPDES site 001 (discharge from the sediment pond). August and September data for UPDES site 002 is still in the 'pipeline'.

6. Were all required DMR parameters reported?

YES ☐ NO ☒

Missing oil and grease data for July.

7. Were irregularities found in the DMR data?

YES ☒ NO ☐

TDS concentrations for UPDES site 002 exceed the maximum discharge limitation of 2000 lbs/day for July and August.

8. Based on your review, what further actions, if any, do you recommend?

Discuss with the permittee and mine hydrologist if the automatic sampling method for some of the stream sites can be improved upon. Implement a plan to have the automatic sampler collection and holding times reported to DOGM to aid in the evaluation of the analytical results. Although elevated concentrations of some parameters were reported for ST-5 and ST-6, the concentrations were consistent with what would be expected from the mine discharge mixed with ephemeral storm-water runoff.

The permittee has sent a corrected analytical results table for UPDES site 002 to DOGM to update the database and remove reported data from the pipeline. The missing oil and grease data for July is included with the corrected table.

The permittee has reportedly informed the DWQ of the TDS exceedence for UPDES site 002. According to the permittee, the DWQ will monitor the TDS concentration from this outfall and possibly amend the UPDES permit if necessary. DOGM will continue to monitor the TDS concentrations as well.